

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A process for producing a pentose-5-phosphate ester, wherein:

a pentose is reacted with a phosphoric acid donor in the presence of an acid phosphatase;

the pentose is a pentose in (3S, 4R) or (3R, 4S) and the pentose is ribose, arabinose or 2-deoxyribose;

the pentose-5-phosphate ester is a pentose-5-phosphate ester in (3S, 4R) or (3R, 4S) and the pentose-5-phosphate ester is a ribose-5-phosphate ester, an arabinose-5-phosphate ester or a 2-deoxyribose-5-phosphate ester; and

the acid phosphatase is an acid phosphatase derived from *Shigella flexneri*; and

the pentose is reacted with the phosphoric acid donor at a molar ratio of not less than 3 fold and not more than 7 fold phosphoric acid donor to pentose.

2-3. (Canceled).

4. (Original) The production process according to claim 1, wherein the phosphoric acid donor is a polyphosphoric acid or a salt thereof.

5. (Canceled).

6. (Original) The production process according to claim 1, wherein the acid phosphatase is reacted under the condition that it is contained not less than 1 U/mL.

7-8. (Canceled).